



Source Dynamics LLC 12230 E Del Norte, Yuma, AZ 85367-7355

September 30, 2018

Document Processing Desk  
Office of Pesticide Programs (P7504P)  
Environmental Protection Agency  
Room S-4900, One Potomac Yard (South Building)  
2777 S. Crystal Drive  
Arlington, VA 22202

Attn: Reuben Baris (PM 25) Herbicide Branch, Registration Division

Dear Mr. Baris:

Subject: Paraquat Technical (EPA Reg. No. 82542-x):  
Registration Application

Source Dynamics LLC wishes to register a new product, Paraquat Technical. The Agency has already approved several sources of active ingredient for the formulation of our end-use product Paraquat Concentrate (82542-3), which is formulated overseas. We now we wish to obtain approval of these sources as the new product Paraquat Technical, which could be imported into the United States for formulation into our end-use product. All supporting data are already on file with the Agency.

In support of this application we have enclosed the following:

Application for Pesticide Registration (8570-1)  
Confidential Statement of Formula (8570-4)  
Certification with Respect to Citation of Data (8570-34)  
Data Matrix (8570-35)  
Summary of the Physical/Chemical Properties (8570-36)  
Self-Certification Statement for the Physical/Chemical Properties (8570-37)  
Proposed label (three copies)  
Supporting report (three copies, with Data Transmittal Document)

We have concluded that this regulatory action falls in PRIA Category R301. The fee for this action is \$1897. Confirmation of payment is enclosed.

Please contact me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert Hawk".

Robert Hawk  
Source Dynamics LLC

## DATA TRANSMITTAL DOCUMENT

### Name and Address of Data Submitter

Source Dynamics LLC  
12230 E. Del Norte  
Yuma, AZ 85367-7355

### Regulatory Action in Support of Which This Package is Submitted

Registration Application: Paraquat Technical: EPA Reg. No. 82542-x

### Transmittal Date

September 30, 2018

### Submitted Studies (3 Copies)

R. Hawk, "Paraquat Concentrate: Product Identity, Description of Materials, Manufacturing Process, Discussion of Impurities and Certification of Limits," Report No. SD1809 (August 30, 2018), 12 pages, OPPTS 830.1550, 830.1600, 830.1620, 830.1670 and 830.1750

Signature:



Company Official:

Robert Hawk

Company Name:

Company Contact: Robert Hawk  
Source Dynamics LLC  
rhawk@solerasd.com  
telephone (928) 342-3489



United States  
Environmental Protection Agency  
Washington, DC 20460

☒ Registration  
☐ Amendment  
☐ Other

OPP Identifier Number

## Application for Pesticide - Section I

1. Company/Product Number 82542-GL	2. EPA Product Manager Reuben Baris	3. Proposed Classification <input type="checkbox"/> None <input checked="" type="checkbox"/> Restricted
4. Company/Product (Name) Paraquat Technical	PM# 25	
5. Name and Address of Applicant (Include ZIP Code)  Source Dynamics LLC 12230 E. Del Norte, Yuma, AZ 85367-7355  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. 5841-623 <u>5481-473</u> Product Name Paraquat Dichloride Technical	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input checked="" type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

This is a registration application for a new product, Paraquat Technical. No new data are submitted with this application; all necessary supporting data are already on file with the Agency.

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	
				<input type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted					
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container not retail		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			


## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Robert Hawk		Title Registration Manager		Telephone No. (Include Area Code) 928-342-3489	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped)
2. Signature 		3. Title Registration Manager			
4. Typed Name Robert Hawk		5. Date 9/30/2018			




**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

## DATA MATRIX

Date 9/30/2018			EPA Reg. No./File Symbol 82542-x		Page 1 of 5
Applicant's/Registrant's Name & Address Source Dynamics LLC 12230 E. Del Norte Yuma, AZ 85367-7355			Product Paraquat Technical		
Ingredient paraquat dichloride					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT PROPERTIES DATA					
830.1550	product identification and disclosure of ingredients	NEW	Source Dynamics LLC	OWN	
830.1600	description of beginning materials	NEW	Source Dynamics LLC	OWN	
830.1620	description of manufacturing process	NEW	Source Dynamics LLC	OWN	
830.1650	description of formulation process	NEW	Source Dynamics LLC	OWN	
830.1670	discussion of formation of impurities	NEW	Source Dynamics LLC	OWN	
830.1700	preliminary analysis	NEW	Source Dynamics LLC	OWN	
830.1750	certification of limits	NEW	Source Dynamics LLC	OWN	
830.1800	enforcement analytical method	47091101 47091102 47091103	Source Dynamics LLC	OWN	
830.6302	color	47091105	Source Dynamics LLC	OWN	
830.6303	physical state	47091105	Source Dynamics LLC	OWN	
830.6304	odor	47091105	Source Dynamics LLC	OWN	
Signature 			Name and Title: Robert Hawk Registration Manager, Source Dynamics LLC		Date: 9/30/2018

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Applicant's/Registrant's Name & Address Source Dynamics LLC 12230 E. Del Norte Yuma, AZ 85367-7355			Product Paraquat Technical		
Ingredient paraquat dichloride					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6313	stability to normal and elevated temperatures	47847201	Source Dynamics LLC	OWN	
830.6314	oxidation / reduction: chemical incompatibility	47847201	Source Dynamics LLC	OWN	
830.6315	flammability	47847201	Source Dynamics LLC	OWN	
830.6316	explosibility	47847201	Source Dynamics LLC	OWN	
830.6317	storage stability	47847201	Source Dynamics LLC	OWN	
630.6319	miscibility	47847201	Source Dynamics LLC	OWN	
830.6320	corrosion characteristics	47847201	Source Dynamics LLC	OWN	
830.6321	dielectric breakdown voltage	47847201	Source Dynamics LLC	OWN	
830.7000	pH	47091105	Source Dynamics LLC	OWN	
830.7050	UV / visible absorption	47847201	Source Dynamics LLC	OWN	
830.7100	viscosity	47091105	Source Dynamics LLC	OWN	
830.7200	melting point	47847201	Source Dynamics LLC	OWN	
830.7220	boiling point	47847201	Source Dynamics LLC	OWN	
830.7300	density / relative density	47091105	Source Dynamics LLC	OWN	
830.7370	dissociation constant in water	47847201	Source Dynamics LLC	OWN	
Signature 			Name and Title: Robert Hawk Registration Manager, Source Dynamics LLC		Date: 9/30/2018



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Applicant's/Registrant's Name &amp; Address

Source Dynamics LLC  
12230 E. Del Norte  
Yuma, AZ 85367-7355

Product  
Paraquat Technical

Ingredient paraquat dichloride

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7550	octanol / water partition coefficient	47847201	Source Dynamics LLC	OWN	
830.7570	octanol / water partition coefficient	47847201	Source Dynamics LLC	OWN	
830.7840	water solubility	47847201	Source Dynamics LLC	OWN	
830.7860	solubility in organic solvents	46098802	Sinon Corporation	PAY	
830.7950	vapor pressure	47847201	Source Dynamics LLC	OWN	
ACUTE TOXICITY DATA					
870.1100	acute oral toxicity	47091107	Source Dynamics LLC	OWN	
870.1200	acute dermal toxicity	47091108	Source Dynamics LLC	OWN	
870.1300	acute inhalation toxicity	47091109	Source Dynamics LLC	OWN	
870.2400	acute eye irritation	46098805	Sinon Corporation	PAY	
870.2500	acute dermal irritation	47091110	Source Dynamics LLC	OWN	
870.2600	skin sensitization	47091111	Source Dynamics LLC	OWN	

Signature



Name and Title:  
Robert Hawk  
Registration Manager, Source Dynamics LLC

Date:  
9/30/2018

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Applicant's/Registrant's Name & Address  
Source Dynamics LLC  
12230 E. Del Norte  
Yuma, AZ 85367-7355

Product  
Paraquat Technical

Ingredient paraquat dichloride

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Series 870 other: cite-all Series 810: cite-all Series 835: cite-all Series 840: cite-all Series 850: cite-all Series 860: cite-all Series 875: cite-all	Toxicology: generic data	multiple	Syngenta Crop Protection, LLC	PAY	
	Product Performance: generic data		The Scotts Company	PAY	
			Monsanto Company	PAY	
	Fate, Transport and Transformation: generic data		Crystal Chemical Company	PAY	
			Dow Agrosciences LLC	PAY	
	Spray Drift: generic data		Makhteshim-Agan of North America, Inc. (d/b/a Adama)	PAY	
			Spray Drift Task Force	PAY	
	Ecological Effects: generic data		EDM Industries, Inc.	PAY	
			Sinon Corporation	PAY	
	Residue Chemistry: generic data		Outdoor Residential Exposure Task Force	PAY	
			Agricultural Reentry Task Force	PAY	
	Occupational and Residential Exposure: generic data		FIFRA Endangered Species Task Force	PAY	
			Helm Agro US, Inc.	PAY	
			Residential Exposure Joint Venture	PAY	
Signature 			Name and Title: Robert Hawk Registration Manager, Source Dynamics LLC		Date: 9/30/2018



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Applicant's/Registrant's Name &amp; Address

Source Dynamics LLC  
12230 E. Del Norte  
Yuma, AZ 85367-7355Product  
Paraquat Technical


Ingredient paraquat dichloride

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Series 870 other: cite-all Series 810: cite-all Series 835: cite-all Series 840: cite-all Series 850: cite-all Series 860: cite-all Series 875: cite-all Series 890: cite-all	Toxicology: generic data Product Performance: generic data Fate, Transport and Transformation: generic data Spray Drift: generic data Ecological Effects: generic data Residue Chemistry: generic data Occupational and Residential Exposure: generic data	multiple	Agricultural Handlers Exposure Task Force	PAY	
			Griffin Corporation	PAY	
			Sinon USA, Inc.	PAY	
			Sharda Cropchem Limited	PAY	
			Adama Celsius Property B.V., Amsterdam (NL)	PAY	
			Generic Endangered Species Task Force	PAY	
			Mycone Dental Supply Company, Inc.	PAY	
			Willowood, LLC	PAY	
			Willowood Paraquat, LLC	PAY	
			US Raymat AG LLC	PAY	
			Champion Crop Care	PAY	
			Genmerica NA, LLC	PAY	
			Genagri, LLC	PAY	
Signature 			Name and Title: Robert Hawk Registration Manager, Source Dynamics LLC		Date: 9/30/2018




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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT PROPERTIES DATA					
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
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			Source Dynamics LLC	OWN	
Signature 			Name and Title: Robert Hawk Registration Manager, Source Dynamics LLC		Date: 9/30/2018


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Ingredient paraquat dichloride					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
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Signature 			Name and Title: Robert Hawk Registration Manager, Source Dynamics LLC		Date: 9/30/2018

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Ingredient paraquat dichloride					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Sinon Corporation	PAY	
			Source Dynamics LLC	OWN	
ACUTE TOXICITY DATA					
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
			Sinon Corporation	PAY	
			Source Dynamics LLC	OWN	
			Source Dynamics LLC	OWN	
Signature 			Name and Title: Robert Hawk Registration Manager, Source Dynamics LLC		Date: 9/30/2018



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Ingredient paraquat dichloride					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Syngenta Crop Protection, LLC	PAY	
			The Scotts Company	PAY	
			Monsanto Company	PAY	
			Crystal Chemical Company	PAY	
			Dow Agrosciences LLC	PAY	
			Makhteshim-Agan of North America, Inc. (d/b/a Adama)	PAY	
			Spray Drift Task Force	PAY	
			EDM Industries, Inc.	PAY	
			Sinon Corporation	PAY	
			Outdoor Residential Exposure Task Force	PAY	
			Agricultural Reentry Task Force	PAY	
			FIFRA Endangered Species Task Force	PAY	
			Helm Agro US, Inc.	PAY	
Residential Exposure Joint Venture	PAY				
Signature 			Name and Title: Robert Hawk Registration Manager, Source Dynamics LLC		Date: 9/30/2018

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Applicant's/Registrant's Name &amp; Address

Source Dynamics LLC  
12230 E. Del Norte  
Yuma, AZ 85367-7355Product  
Paraquat Technical

Ingredient paraquat dichloride

Guideline Reference Number

Guideline Study Name

MRID Number

Submitter

Status

Note

Agricultural Handlers Exposure Task Force

PAY

Griffin Corporation

PAY

Sinon USA, Inc.

PAY

Sharda Cropchem Limited

PAY

Adama Celsius Property B.V., Amsterdam (NL)

PAY

Generic Endangered Species Task Force

PAY

Mycone Dental Supply Company, Inc.

PAY

Willowood, LLC

PAY

Willowood Paraquat, LLC

PAY

US Raymat AG LLC

PAY

Champion Crop Care

PAY

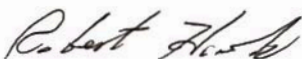
Genmerica NA, LLC

PAY

Genagri, LLC

PAY

Signature

Name and Title: Robert Hawk  
Registration Manager, Source Dynamics LLCDate:  
9/30/2018



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. WASHINGTON, D.C. 20460**

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, Collection Strategies Division (2822T), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the completed form to this address.

**Certification with Respect to Citation of Data**

Applicant's/Registrant's Name, Address, and Telephone Number Source Dynamics LLC, 12230 E. Del Norte, Yuma, AZ 85367-7355	EPA Registration Number/File Symbol 82542-x
Active Ingredient(s) and/or representative test compound(s) paraquat dichloride	Date September 30, 2018
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) terrestrial food and non-food crops	Product Name Paraquat Technical

**NOTE:** If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). ☒

**SECTION I: METHOD OF DATA SUPPORT (Check one method only)**

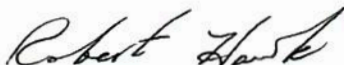
I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). <input type="checkbox"/>	I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used). <input checked="" type="checkbox"/>
--	---

**SECTION II: GENERAL OFFER TO PAY**

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements] I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA. ☒

**SECTION III: CERTIFICATION**

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses. I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study. I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study. I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA. I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature 	Date September 30, 2018	Typed or Printed Name and Title Robert Hawk Registration Manager
--	----------------------------	--





**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**401 M Street, S.W.**  
**WASHINGTON, D.C. 20460**

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**SUMMARY OF THE PHYSICAL/CHEMICAL PROPERTIES (PR Notice 98-1)**

1. PRODUCT NAME: Paraquat Technical		2. Reg. No. 82542-x
3. COMPANY NAME: Source Dynamics LLC		4. SUBMISSION DATE: 9/30/2018
5. FIRST SUBMISSION <input checked="" type="checkbox"/>	7. PESTICIDE TYPE: herbicide	10. REGISTRATION <input checked="" type="checkbox"/>
6. RESUBMISSION <input type="checkbox"/>		
8. FORMULATED MANUFACTURING-USE PRODUCT <input checked="" type="checkbox"/> or 9. END-USE PRODUCT <input type="checkbox"/>		11. REREGISTRATION <input type="checkbox"/>
13. PRODUCT MANAGER OR CHEMICAL REVIEW MANAGER #/NAME (IF KNOWN): Kable Davis (25)		12. REREG CASE #
14. GUIDELINE REFERENCE NO.(GRN)/TITLE	15. VALUE or QUALITATIVE DESCRIPTION/METHOD(s) USED WHERE APPLICABLE AND REFERENCES	16. MRID or REPORT NO.
<b>Group B, Series 830-Physical and Chemical Properties (40 CFR 158.190)</b>		
-6302 Color	clear tan/brown	47091105
-6303 Physical State	liquid	47091105
-6304 Odor	pungent odor	47091105
-6314 Oxidation/Reduction: Chemical Incompatibility	decomposes in 10% permanganate solution, reacts with iron powder	47847201
-6315 Flammability/Flame Extension	not applicable, aqueous product	
-6316 Explodability	not applicable	
-6317 Storage Stability	stable for 1 year under normal conditions; avoid freezing. does not polymerize	47847201
-6319 Miscibility	not applicable	
-6320 Corrosion Characteristics	corrodes aluminum; will corrode iron under prolonged exposure; stable in HDPE container	47847201
-6321 Dielectric Breakdown Voltage	not applicable	
-7000 pH	3.98 (1% in water)	47091105
-7100 Viscosity	5.077 centistokes at 20C, 3.032 centistokes at 40C	47091105
-7300 Density/Relative Density/ Bulk Density	1.151 g/ml	47091105



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
1200 Pennsylvania Avenue, N.W.  
WASHINGTON, D.C. 20460

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, Collection Strategies Division (2822T), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the form to this address.

**SELF-CERTIFICATION STATEMENT FOR THE  
PHYSICAL/CHEMICAL PROPERTIES (PR NOTICE 98-1)**

Product Name: Paraquat Technical

Reg. No./File Symbol No.  
(if known) or Company No. 82542-x

**SELF-CERTIFICATION STATEMENT:**

I certify that the reported information on the "Summary Form" represents a true and accurate record of the test results of studies generated or owned by (Company Name): Source Dynamics LLC

\_\_\_\_\_ and that the values of the properties reported are reliable.

I further certify that such data were generated in substantial conformity with OPPTS Test Guideline Series 830 Product Properties, applicable to my product, and in effect at the time of submission.

As a condition of registration, EPA may, by order, (1) withdraw a pending registration, (2) suspend the registration of this product without opportunity for hearing, or (3) assess civil penalties provided for in section 14 of FIFRA for violations of section 12(a)(2)(N) of FIFRA without opportunity for hearing, if I have not submitted to EPA within thirty (30) days of receipt of a request by the Agency, or within a specified time agreed to by the Agency, test results of studies summarized in the "Summary Form."

As a condition of registration, EPA may, by order, (1) withdraw a pending registration, (2) suspend the registration of this product without opportunity for hearing, or (3) assess civil penalties provided for in section 14 of FIFRA for violations of sections 12(a)(2)(N), 12(a)(2)(Q), or 12(a)(2)(R) of FIFRA without opportunity for hearing, if I fail to provide to EPA within thirty (30) days of receipt of a notification of error, or within a specified time agreed to by the Agency, information that EPA determines is required to correct the error.

Type Applicant's Name: Robert Hawk

Title: Registration Manager, Source Dynamics LLC

Telephone No. 928-342-3489

Applicant's Signature:

Date: 9/30/2018



# PARAQUAT TECHNICAL

For the Formulation of Paraquat-containing Herbicide Products Only

**ACCEPTED**

10/29/2019

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 82542-35

## Active Ingredient:

Paraquat dichloride (1,1'-dimethyl-4,4'-bipyridinium  
dichloride) ..... 45.4%

Other Ingredients ..... 54.6%

Total: ..... 100.0%

Contains 3.14 pounds paraquat cation per gallon as 4.332  
pounds of paraquat dichloride salt per gallon.

**KEEP OUT OF REACH OF CHILDREN  
MANTENER FUERA DEL ALCANCE DE LOS NIÑOS  
DANGER / PELIGRO**



**POISON / VENENO**

READ ENTIRE LABEL PRIOR TO USING THIS PRODUCT

- CORROSIVE TO SKIN AND EYES
- NEVER TRANSFER THIS PRODUCT INTO FOOD OR BEVERAGE CONTAINERS OR CONTAINERS NOT EXPLICITLY INTENDED FOR PESTICIDES.
- READ ENTIRE LABEL PRIOR TO USING THIS PRODUCT.
- IN THE CASE OF AN ACCIDENT, SEEK IMMEDIATE MEDICAL ATTENTION. SYMPTOMS ARE PROLONGED, PAINFUL, AND CAN BE FATAL.

LEA TODA LA ETIQUETA ANTES DE UTILIZAR ESTE PRODUCTO

- CORROSIVO PARA LA PIEL Y LOS OJOS.
- NUNCA TRANSFERA ESTE PRODUCTO A RECIPIENTES PARA COMIDA O DE BEBIDAS O RECIPIENTES NO EXPLICITAMENTE PREVISTOS PARA PLAGUICIDAS.
- LEA LA ETIQUETA COMPLETA ANTES DE USAR ESTE PRODUCTO.
- EN CASO DE ACCIDENTE, BUSQUE ATENCIÓN MÉDICA INMEDIATA. LOS SÍNTOMAS SON PROLONGADOS, DOLOROSOS, Y PUEDEN SER MORTALES.

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

## FIRST AID

Contains Paraquat, a Bipyridylum Herbicide. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

### IF SWALLOWED:

- Call a poison control center or doctor IMMEDIATELY for treatment advice.
- **SPEED IS ESSENTIAL.** Immediate medical attention is required. If available, give an adsorbent such as activated charcoal, bentonite or Fuller's Earth.
- Do not give anything by mouth to an unconscious person.

### IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for treatment advice.

### IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

**NOTE TO PHYSICIAN:** Administer either activated charcoal (100 grams for adults or 2g/kg body weight in children) or Fuller's Earth (15% solution; 1 liter for adults or 15ml/kg body weight in children). NOTE: The use of gastric lavage without administration of an adsorbent has not shown any clinical benefit. Do not use supplemental oxygen. Eye splashes from concentrated material should be treated by an eye specialist after initial treatment. With the possibility of late onset corneal ulceration, it is advised that patients with paraquat eye injuries are reviewed by an eye specialist the day after first presentation. Use treatment that is appropriate for chemical burns. Intact skin is an effective barrier to paraquat; however, contact with irritated or cut skin or repeated contact with intact skin may result in poisoning.

## HOT LINE NUMBERS:

Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. Call the National Poison Control Center at 1-800-222-1222 for emergency medical treatment information. For a transportation emergency, please contact CHEMTREC at 1-800-424-9300.

Source Dynamics LLC  
12230 E Del Norte  
Yuma, AZ 85367-7355

EPA Reg. No.: 82542-35  
EPA Est. No.  
Net Contents:



**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER**

Fatal if inhaled. Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Harmful if absorbed through skin. Do not breathe spray mist. Do not get in eyes or on clothing. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**IMPORTANT:** Inhalation is an unlikely route of exposure due to low vapor pressure and large spray droplet size, but mucosal irritation or nose bleeds may occur. Prolonged contact with this concentrated product can irritate your skin.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**When handling or mixing concentrate or when exposure to concentrate is possible, wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, natural rubber ≥14 mils, polyethylene, polyvinyl chloride (PVC) ≥14 mils, or Viton® ≥14 mils.
- Shoes plus socks
- Protective eyewear
- Chemical-resistant apron
- Wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N1, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N1, R, or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters.

**ENVIRONMENTAL HAZARDS**

This product is **toxic to wildlife**. Do not discharge effluent containing this product or apply directly to water or apply to areas where surface water is present, or to intertidal areas below the mean high-water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

Paraquat dichloride is **toxic to nontarget crops and plants** if off-target movement occurs because it desiccates all green plant tissue. Extreme care must be taken to ensure that off-target drift is minimized to the greatest extent possible. Refer to the local state laws, regulations, guidelines, and spray drift information contained in the Directions for Use section for proper application to avoid off-target movement. Do not apply under conditions involving possible drift to food, forage, or other plantings that might be damaged or the crops thereof rendered unfit for sale, use, or consumption. Do not apply when weather conditions favor drift from treated areas. To avoid drift, do not make aerial application during periods of thermal inversion.

**PHYSICAL AND CHEMICAL HAZARDS**

This product is **mildly corrosive to aluminum** and produces hydrogen gas which may form a highly combustible gas mixture. Do not mix or store in containers, spray tanks, nurse tanks, or such systems made of aluminum or having aluminum fittings. The product is compatible with high density polyethylene and rubber-lined steel containers.

**EQUIPMENT/CONTAINER:** Flush all equipment with water after use each day. Aluminum equipment and aluminum structures that are exposed to solution or spillage should be flushed thoroughly with water immediately after use.

**SPILLAGE DURING TRANSPORT**

**EMERGENCY ACTION:** Notify police and fire departments immediately regarding any spill, leak, fire or exposure.

**KEEP THE PUBLIC AND ANIMALS** away from your area.

**MARK ROADS AND WARN OTHER ROAD USERS.**

**WEAR** a face shield, chemical-resistant gloves, waterproof footwear, and long-sleeve shirt and long pants during decontamination operations.

Clean up spills as soon as possible. Cover spill with a generous amount of clay or loam soil to absorb liquid, using a stiff broom to ensure intimate contact. Sweep onto shovel and transfer to a plastic bag or other disposable container. Repeat operations until contaminated surfaces are dry. Finally, hose the spill site with water if feasible.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**READ THE ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

Only for formulation into a herbicide for the following uses:

- **Terrestrial Food and Feed:** Acerola; Alfalfa; Almonds; Apples; Apricots; Artichoke, Chinese; Artichoke, Jerusalem; Asparagus; Atemoya; Avocados; Bananas/Plantains; Barley; Beans (dry type, mung, lima, snap, garbanzos including chickpeas); Biriba; Blackberries; Black sapote; Blueberries; Boysenberries; Brazil nut; Broccoli; Butternut; Cabbage; Cabbage, Chinese; Cacao; Calamondin; Canistel; Carrots; Cashew; Cassava, bitter and sweet; Cauliflower; Chayote (fruit and root); Cherimoya; Cherries; Chestnut; Chiquapin; Citrus fruits, Citron melon; Citrus citron; Clover, Crownvetch, Lespedeza, Lupine and other legumes; Coffee; Collards; Corn (unspecified, pop, field, sweet, and seed); Cotton; Cucumber; Currant; Custard apple; Dasheen (taro); Easter Lilies; Eggplant; Elderberry; Endive (escarole); Fallow land; Feijoa; Figs; Filberts; Garlic; Gherkin; Gooseberry; Gourd, edible; Grapefruit; Grapes (fresh, raisin, wine); Groundcherry; Guar; Guava; Hops; Hickory nut; Hops, Huckleberry; Ilaia; Jaboticaba; Kiwi fruit; Kumquat; Legume vegetables, Lemon; Lentils; Leren; Lettuce; Lime; Loganberry; Longan; Lychee; Macadamia nut; Mamey sapote; Mandarin; Mandarin, Satsuma; Mango; Mint (peppermint and spearmint); Momordica spp.; Muskmelon; Nectarines; Okra; Olives; Onions; Orange (sour & sweet); Orchards (unspecified); Papayas; Passion Fruit; Pastures; Pawpaw; Peaches; Peanuts; Pears; Peas (unspecified, field, pigeon); Pecans; Pepino; Peppers; Persimmon; Pigeon peas; Pineapple; Pistachios; Plums; Pomegranate; Potato; Prunes; Pulasan; Pummelo; Pumpkin; Rambutan; Raspberries; Rice; Safflower; Sainfoin; Sapodilla; Small fruits; Small grains; Sorghum; Soursop; Soybeans; Spanish lime; Squash; Star apple; Starfruit; Strawberries; Sugar apple; Sugarbeets; Sugarcane; Sunflower; Sweet corn; Sweet potato; Taniers; Timothy, Tomatillo; Tomatoes; Trefoil; Turnips; Tyfon; Vegetables, Vetch; Walnuts; Watermelon; Waxgourd, Chinese; Wax jambu; Wheat; White sapote; Yam bean; Yam, true
- **Terrestrial Nonfood:** Chemical Fallow, Conservation Compliance Lands, Conservation Reserve Lands, Federal Set-Aside Lands, Grasses grown for seed, Resin soaking (pines), Noncrop Uses (including but not limited to public airports, electric transformer stations, pipeline pumping stations, around commercial buildings, storage yards and other installations, and fence lines), Tree Plantation Establishment; Agricultural fallow/idle land, Airports/landing fields, Commercial/industrial lawns, Commercial/institutional/industrial, Premises/equipment (outdoor), Fencerows/hedgerows, Grasses grown for seed, Industrial areas (outdoors), Jojoba, Nonagricultural outdoor buildings/structures, Nonagricultural uncultivated areas/soils; Ornamental and/or shade trees; Peach (nonbearing/seed beds), Tomato (post-harvest), Wood protection treatment to forest products (seasoned)
- Uses for which USEPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration; and
- Uses for experimental purposes that are in compliance with USEPA requirements.



## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Store in original container and place in a locked storage area. Do not mix or store in containers, spray tanks, nurse tanks, or such systems made of aluminum or having aluminum fittings. Store at temperatures above 32°F. For Emergencies involving a Spill, Leak, Fire, Exposure, or Accident, contact: CHEMTREC at (800) 424-9300.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### CONTAINER HANDLING:

#### **Nonrefillable Container (rigid material, greater than 5 gallons):**

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth several times, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### **Refillable Containers:**

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Offer for recycling, if available.

To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full of water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**WARRANTY STATEMENT IMPORTANT NOTICE** - Seller warrants that this product conforms to the chemical description and is reasonably fit for purposes stated on the label when used in accordance with the directions and instructions under normal conditions of use; **but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and to the extent consistent with applicable law, buyer assumes the risk of any such use.**